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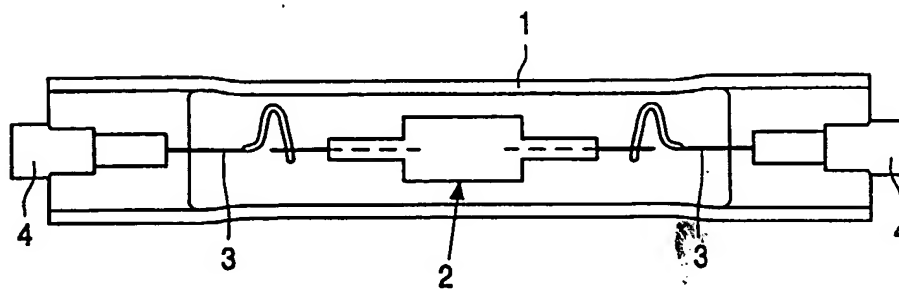
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SINTERED BODY AND ELECTRIC LAMP



(57) Abstract: The sintered body of gastight translucent polycrystalline alumina contains oxidic magnesium, an oxidic second metal selected from erbium, holmium, thulium and dysprosium, and oxidic zirconium. The body can be used in a lamp vessel of an electric lamp.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C04B35/111 C04B35/115 H01J61/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C04B H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX, INSPEC, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 218 279 A (PHILIPS NV) 15 April 1987 (1987-04-15) cited in the application the whole document ---	1-6
Y	US 5 682 082 A (WEI GEORGE ET AL) 28 October 1997 (1997-10-28) whole document, in particular col. 3, 1.1-4 ---	1-6
A	US 5 376 606 A (KIM YOON H ET AL) 27 December 1994 (1994-12-27) column 2, line 65 - line 68 ---	1-6
A	US 4 285 732 A (CHARLES RICHARD J ET AL) 25 August 1981 (1981-08-25) column 2, line 15 - line 19 --- -/--	1-6

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☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	<p>PATENT ABSTRACTS OF JAPAN vol. 2002, no. 11, 6 November 2002 (2002-11-06) -& JP 2002 203513 A (GENERAL ELECTRIC CO), 19 July 2002 (2002-07-19) abstract; claim 11 -----</p>	1-6

INTERNATIONAL SEARCH REPORT

patent family members

PCT/IB 02/05618

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0218279	A	15-04-1987	NL 8502457 A	01-04-1987
			CA 1256128 A1	20-06-1989
			CN 86105927 A ,B	11-03-1987
			DE 3662254 D1	13-04-1989
			EP 0218279 A1	15-04-1987
			JP 1853999 C	07-07-1994
			JP 5072346 B	12-10-1993
			JP 62059569 A	16-03-1987
			US 4699774 A	13-10-1987
US 5682082	A	28-10-1997	CA 2211225 A1	29-01-1998
			CN 1182951 A	27-05-1998
			CZ 9702222 A3	18-02-1998
			DE 69704817 D1	21-06-2001
			DE 69704817 T2	27-09-2001
			EP 0822575 A2	04-02-1998
			HU 9701315 A2	28-06-1999
			JP 10092380 A	10-04-1998
			TW 396147 B	01-07-2000
US 5376606	A	27-12-1994	NONE	
US 4285732	A	25-08-1981	DE 3108677 A1	07-01-1982
			FR 2501190 A1	10-09-1982
			GB 2071073 A ,B	16-09-1981
			JP 1230962 C	26-09-1984
			JP 56140072 A	02-11-1981
			JP 59006831 B	14-02-1984
			NL 8101128 A	01-10-1981
JP 2002203513	A	19-07-2002	NONE	